

CLAIMS

1. A cross-linkable rubber composition comprised of a mixture of a carboxyl group-containing nitrile copolymer rubber (A) with a carboxyl group content per 100 g of 2×10^{-3} to 1×10^{-1} equivalents and a carboxyl group-containing acryl-based polymer (B) with a carboxyl group content per 100 g of 4×10^{-4} to 1×10^{-1} equivalents in a weight ratio A:B=40:60 to 90:10 into which

a cross-linking agent (C) able to cross-link the carboxyl groups of both said nitrile copolymer rubber (A) and said acryl-based polymer (B) is blended,

the amount blended of said cross-linking agent (C), converted to equivalents of functional groups able to react with carboxyl groups in said cross-linking agent, being 0.3 to 3 times equivalents of the total content of the carboxyl groups of both said nitrile copolymer rubber (A) and said acryl-based polymer (B).

2. The cross-linkable rubber composition as set forth in claim 1, wherein a ratio of the carboxyl group content of said acryl-based polymer (B) with respect to the carboxyl group content of said nitrile copolymer rubber (A) is 0.2 to 1 times equivalents.

3. The cross-linkable rubber composition as set forth in claim 1 or 2, wherein a total content of the carboxyl groups of both said nitrile copolymer rubber (A) and said acryl-based polymer (B) is 7×10^{-4} to 1×10^{-1}

equivalents per 100 g.

4. The cross-linkable rubber composition as set forth in any of claims 1 to 3, wherein said nitrile copolymer rubber (A) includes an α,β -ethylenic unsaturated dicarboxylic acid monoester unit.

5. The cross-linkable rubber composition as set forth in any of claims 1 to 4, wherein said acryl-based polymer (B) includes an α,β -ethylenic unsaturated dicarboxylic acid monoester unit.

6. The cross-linkable rubber composition as set forth in any of claims 1 to 5, wherein said cross-linking agent (C) is a polyvalent amine compound.

7. A cross-linked product made by cross-linking the cross-linkable rubber composition as set forth in any of claims 1 to 6.